

What Are Missed in Intelligence Studies

If Newton had used Pascal's probability thinking and language, could he have established classical physics? Without classical physics, there would be no base to develop quantum physics.

John von Neumann suggested some valuable mathematical theories for quantum physics. However, he was terribly wrong in his weather control plan (See Freeman Dyson's *Birds and Frogs*). What languages and mathematical method to use and think, makes big difference.

Neurosciences only make progresses in some animal level intelligence: vision, motion, emotion, or something similar, etc. They can do very little to understand human specific intelligences, such as the principles and mechanisms behind the development of natural languages, philosophical opinions, mathematics axiom systems, and sciences, etc.

To study human intelligence, I propose three research plans:

1) With Go game, study what factors constrains human intelligence in Go games, and develop testing procedures for computer Go products [1], etc.

2) With natural languages, study what language factors are needed in human specific intelligence studies, etc. Also, a middle-level test for natural language processing is needed to measure the current status of artificial intelligence [2]. Turing Test is misleading.

3) Study intelligence in life systems including real neural systems.

The semantics of irrational numbers is a key to look into these issues, which is already partially proved by the recent developments. Deep learning does not provide insights of which tasks are easy and which are difficult, and even cannot be used to analyse the weakness of AlphaGo.

However, without clarifying the sophism and misleading in brain and intelligence studies, including Leukotomy[3] and Turing Test, there is no fair environment to study human specific intelligence.

Without fair environment and fair allocation of research resources, I am unable to do further research.

[1] Other people also could think of what factors constrains human

intelligence in financial trading, etc., to see any difference from those in Go game.

AlphaGo is a computer program that plays the board game Go. It was developed by DeepMind, a company that is part of Google. AlphaGo was created by a team of researchers led by Demis Hassabis. AlphaGo has won several Go championships, including the 2017 World Go Championship. AlphaGo is a testament to the power of artificial intelligence.

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[2] There are much more difficult tasks in natural language processing than machine translation. Even machine translation is far from perfect. So a test is needed to know where AI currently is.

[3] Leukotomy is a surgical procedure that involves removing a portion of the brain. It was first performed in 1949. Leukotomy is a controversial procedure. Some people believe it is a cure for mental illness, while others believe it is a form of brainwashing. A study of 25 patients who had undergone leukotomy found that 25% showed no change, 2% had become worse and 4% had died. Leukotomy is a controversial procedure. Some people believe it is a cure for mental illness, while others believe it is a form of brainwashing. A study of 25 patients who had undergone leukotomy found that 25% showed no change, 2% had become worse and 4% had died. Leukotomy is a controversial procedure. Some people believe it is a cure for mental illness, while others believe it is a form of brainwashing. A study of 25 patients who had undergone leukotomy found that 25% showed no change, 2% had become worse and 4% had died.